

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S146	69	multi?phase adj pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/06 18:30
S147	12	S146 and (separate near3 phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/06 18:30
S148	31	S146 and (separat\$3 near3 phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/06 18:39
S149	15	S146 same (separat\$3 near3 phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/06 18:40
S150	22	("20010017207"   "20020153326"   "4241787"   "4296810"   "4766957"   "5343945"   "5588486"   "5794697"   "5860476"   "6035934"   "6056054"   "6082452"   "6189614"   "6283204"   "6457522").PN. OR ("6691781").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/06 18:41
S151	6	("2381695").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/09 14:14
S152	28	separat\$3 with phase with pump with screw	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/09 14:18
S153	2	("5580214").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/13 17:02
S154	15	("2671406"   "3104964"   "3435771"   "3677659"   "3936214"   "3942961").PN. OR ("5580214").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/20 14:47
S155	9	("2850984").PN. OR ("3942961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/20 14:50
S156	5	("2850984").URPN.	USPAT	OR	ON	2010/07/20 14:55

S157	4	ejector same multi?phase same separat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 15:08
S158	8	degassify\$3 with pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 15:31
S159	63	wellbore and ejector and pump and (vapor gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 15:51
S160	8	("4198300"   "4360234"   "4446917"   "5314525"   "5562161"   "5857519"   "6318464"   "6568477").PN. OR ("6983804").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/20 15:52
S161	10	((("2381695") or ("3016842"))). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/20 16:00
S162	875	(418/201.1).OCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/20 16:05
S163	79	S162 and ((gas vapor) with liquid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:07
S164	17006	separat\$3 with gas with liquid with phase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:14
S165	1994	(separat\$3 with gas with liquid with phase) same pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:15
S166	786	(separat\$3 with gas with liquid with phase) with pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:15
S167	2163333	screw	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:15
S168	58	S166 and S167	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:15
S169	969	stripp\$3 with gas with pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 16:30

S170	253	(95/260).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/20 17:11
S171	125	S170 and pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:11
S172	13588	(gas vapor) same screw same pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:26
S173	3474	((gas vapor) with liquid) same screw same pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:26
S174	417	((gas vapor) with liquid) same (screw near3 pump)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:27
S175	60	("1623239"   "2080622"   "2651259"   "20030085036"   "20040104023"   "20050000689"   "3709292"   "4066123"   "4294573"   "4381175"   "4603735"   "4718486"   "4848471"   "5156537"   "5302294"   "5624249"   "6007306"   "6260627"   "7077207"   "7093665").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:30
S176	786	multi?phase near mixture	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:43
S177	94996	screw same pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:43
S178	41	S176 and S177	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/20 17:43
S179	11	("2498972"   "2931310"   "2937807"   "2940661"   "3146717"   "5028220").PN. OR ("6406281").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/20 17:46
S180	11	("2498972"   "2931310"   "2937807"   "2940661"   "3146717"   "5028220").PN. OR ("6406281").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/20 18:26
S181	30695	displacement adj pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:36

S182	937365	(vapor gas air) with liquid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:36
S183	11033	screw near2 pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:37
S184	12302	(screw screw?type helical) near2 pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:37
S185	6571	S181 and S182	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:37
S186	2112	S184 and S182	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:37
S187	133866	(vapor gas air) with liquid with (separat\$3 degasify\$3 degasification)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 13:46
S188	133866	((vapor gas air) with liquid) with (separat\$3 degasify\$3 degasification)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 14:34
S189	433	S188 and S184	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 14:35
S190	88	S188 same S184	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 14:36
S191	22	("1673259"   "2549633"   "2710581"   "2758548"   "3527507"   "3575426"   "3589843"   "3667879"   "3718378"   "4153395"   "4684335"   "5624249").PN. OR ("6129533").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 14:41
S192	253	(95/260).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/21 14:56
S193	734	((95/261) or (96/204) or (96/209) or (96/217)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/07/21 15:00
S194	30	S193 and ((displacement screw helical screw?type) near2 pump)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/21 15:00

S195	840	(166/369).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/22 16:15
S196	780	(166/369).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/07/22 16:16
S197	1674	((166/267) or (166/68.5) or (166/105.5)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/22 16:42
S198	1674	S197	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/22 16:42
S199	4338	((166/267) or (166/68.5) or (166/105.5) or (210/170.01) or (210/170.07) or (210/188) or (96/182) or (96/155) or (95/241) or (95/243) or (417/77) or (417/79) or (417/88)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/07/22 16:44
S200	81	S199 and (@pd>"20100217")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/22 16:44

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S201	1	(pump\$3 and multi?phase and ejector and gas and liquid).clm.	US-PGPUB	OR	ON	2010/07/22 17:03

**7/ 23/ 2010 1:49:14 PM**
**C:\ Documents and Settings\ rf fuller1\ My Documents\ EAST\ Workspaces\ 10\_595,477 - Multi-phase  
Mixture.wsp**